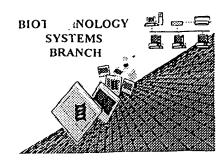
W Wariman

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/509,449	- RECEIVED
Source:	1648	_ MAR 0 5 2001
Date Processed by STIC:	2-22-01	TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker



1648

RAW SEQUENCE LISTING DATE: 02/22/2001 PATENT APPLICATION: US/09/509,449 TIME: 12:05:50

Input Set : A:\ST25.txt

Output Set: N:\CRF3\02222001\I509449.raw

```
3 <110> APPLICANT: Aoyagi, Katsumi
         Ohue, Chiharu
         Iida, Kumiko
         Yagi, Shintaro
 8 <120> TITLE OF INVENTION: Method for Measurement of Hepatitis C Virus
10 <130> FILE REFERENCE: 594.352USWO
12 <140> CURRENT APPLICATION NUMBER: 09/509.449
13 <141> CURRENT FILING DATE: 2000-03-28
15 <150> PRIOR APPLICATION NUMBER: JP-10-216094
16 <151> PRIOR FILING DATE: 1998-07-30
18 <150> PRIOR APPLICATION NUMBER: PCT/JP99/04129
19 <151> PRIOR FILING DATE: 1999-07-30
21 <160> NUMBER OF SEQ ID NOS: 12
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEO ID NO: 1
26 <2.11.> LENGTH: 1.77
27 <212> TYPE: PRT
28 <213> ORGANISM: Hepatitis C virus
30 <400> SEQUENCE: 1
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33 1 5
                                       1.0
35 Phe Met Gly Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr 36 20 25 30
                                  25
38 Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val
39
    35
                              40
41 Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg 42 50 60
44 Ala Thr Arg Lys Thr Ser Lys Arg Ser Gln Pro Arg Gly Gly Arg Arg
                     70
47 Pro Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro
48 85 90 95
                 85
50 Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly
                                  105
                                                1.10
51 100
53 Trp Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp
                        120
   115
56 Pro Arg His Arg Ser Arg Asn Val Gly Lys Val Tle Asp Thr Leu Thr 57 \phantom{-}130\phantom{0} 135 \phantom{-}140\phantom{0}
59 Cys Gly Phe Ala Asp Leu Met Gly Tyr Ile Phe Arg Val Gly Ala Phe
                      1.50
                                           155
62 Leu Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu
63
                  1.65
                                       170
65 Asp
68 <21.0> SEQ ID NO: 2
69 <211> LENGTH: 160
70 <212> TYPE: PRT
71 <213> ORGANISM: Hepatitis C virus
73 <400> SEQUENCE: 2
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Does Not Comply Corrected Diskette Needed

see p. 5

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MAR 0 5 2001

TECH CENTER 1600/2900

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DATE: 02/22/2001
               PATENT APPLICATION: US/09/509,449
                                                    TIME: 12:05:50
               Input Set : A:\ST25.txt
               Output Set: N:\CRF3\02222001\1509449.raw
75 Met Gly Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
76 1
                                    10
78 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Lie Val Gly
79
            20
                               25
                                                  30
81 Gly Val Tyr Leu Leu Pro Arg Gly Pro Arg Leu Gly Val Arg Ala
82
       35
                            40
                                              45
84 Thr Arg Lys Thr Ser Lys Arg Ser Gln Pro Arg Gly Gly Arg Arg Pro
85
    50
                       5.5
87 lle Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
88 65
                     70
                                      75
90 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
91
                85
                                    90
93 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
                                                                               RECEIVED
94 100
                          105
                                                 110
96 Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
97 115
                          120
                                              125
                                                                                   MAR 0 5 2001
99 Gly Phe Ala Asp Leu Met Gly Tyr Tle Phe Arg Val Gly Ala Phe Leu
100 130 135
                                           140
102 Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
                                                                             TECH CENTER 1600/2900
103 145
                      150
                                        155
105 <210> SEO ID NO: 3
106 <211> LENGTH: 20
107 <21.2> TYPE: PRT
108 <213> ORGANISM: Artificial
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence.
113 <400> SEQUENCE: 3
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116 1 5
                                    10
118 Leu Pro Arg Arg
119 20
121 <210> SEQ ID NO: 4
122 <211> LENGTH: 10
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence.
129 <400> SEOUENCE: 4
131 Gly Pro Arg Leu Gly Val Arg Ala Thr Arg
                 5
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 21
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence.
142 <400> SEQUENCE: 5
144 Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro Arg His Arg
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10

RAW SEQUENCE LISTING

5

Input Set : A:\ST25.txt Output Set: N:\CRF3\02222001\1509449.raw 147 Ser Arg Asn Val Gly : 20 150 <210> SEQ ID NO: 6 151 <211> LENGTH: 20 152 <212> TYPE: PRT 153 <213> ORGANISM: Artificial 155 <220> FEATURE: 156 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence. 158 <400> SEQUENCE: 6 160 Asp Pro Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu 163 Thr Cys Gly Phe 164 166 <210> SEQ ID NO: 7 167 <211> LENGTH: 24 168 <212> TYPE: DNA 169 <213> ORGANISM: Artificial 171 <220> FEATURE: 172 <223> OTHER INFORMATION: Primer for polymerase chain reaction. 174 <400> SEQUENCE: 7 175 gaattcatgg gcacgaatcc taaa 178 <210> SEQ ID NO: 8 179 <211> LENGTH: 21 180 <212> TYPE: DNA 181 <213> ORGANISM: Artificial 183 <220> FEATURE: 184 <223> OTHER INFORMATION: Primer for polymerase chain reaction. 186 <400> SEQUENCE: 8 187 ttagtectec agaaccegga c 190 <210> SEQ ID NO: 9 191 <211> LENGTH: 16 192 <212> TYPE: PRT 193 <213> ORGANISM: Artificial 195 <220> FEATURE: 196 <223> OTHER INFORMATION: Portion of Hepatitis C virus sequence. 198 <400> SEQUENCE: 9 200 Thr Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile 201 1 203 <210> SEQ ID NO: 10 204 <211> LENGTH: 1197 205 <212> TYPE: DNA 206 <213> ORGANISM: Artificial 208 <220> FEATURE: 209 <223> OTHER INFORMATION: Nucleotide sequence coding for chimeric antigen. 212 <221> NAME/KEY: CDS 213 <222> LOCATION: (1)..(1188)

216 gaa tto acc aaa gtg ccg gtt got tat gcg gcc aaa ggt tat aag gtc

DATE: 02/22/2001

TIME: 12:05:50

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,449

215 <400> SEQUENCE: 10

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/509,449 DATE: 02/22/2001 TIME: 12:05:50

Input Set : A:\ST25.txt
Output Set: N:\CRF3\02222001\I509449.raw

217 218		Phe	Thr	Lys	Val 5	Pro	Val	Ala	туг	Ala 10	Ala	Lys	Gly	Туг	Lys 15	Val	
220	cta	att	cta	gac	cca	agc	att	qcc	age	acc	cta	aat	tte	qqc	gcq	tat	96
						Ser											
222	1.00	,		20					25			01.7		30			
	cto	200	220		cat	ggt	ata	320		220	ato	cac	aca		atc	cat	144
	-		-	-			-		_			_	_			-	144
	Leu	Se.I.	ду S	нта	11.1.5	Gly	Val	40	PIO	ASII	116	ALG	45	G.I. Y	1.16	MI G	
226											4						200
						gct											192
	Thr		Thr	Thr	GIA	Ala		var	Thr	Tyr	ser		туr	GTÄ	rys	Tyr	
230		50					55					60					
			•			tgc	**										240
233	Leu	Ala	Asp	Gly	Gly	Cys	Ala	Gly	Gly	Ala	Tyr	Asp	Val	Ile	Gly	ser	
234	65					70					75					80	
236	gga	gag	gag	gtg	gcc	ctg	tet	aac	act	gga	gag	gtc	CCC	ttc	tat	ggc	288
237	Gly	Glu	Glu	۷al.	Ala	Leu	ser	Asn	Thr	Gly	Glu	Val	Pro	Phe	Tyr	Gly	
238					85					90					95		
240	cqc	qcq	atc	ccq	atc	gaa	qçq	at.c	aaa	gge	ggt	cqc	cat	ctq	gtt	t.t.c	336
						Glu											
242	,			100					105					110			
	tac	cat	age		gag	aaa	tac	gat		cta	aca	age	aca		ticc	gga	384
						Lys											
246	O _I S		1.15	10 7 .7		137.5	0,10	120	02.4	1300	112.0	00.1	125	·/Cu			
	tta	aat		220	act	gtg	aca		tat	oan	aat	at a		ata	200	att	432
	-		_		-		-			-		_	_		_		432
	Leu	_	Leu	ASI	Ald	Va.l		Pile	TAT	ALG	СТУ		ASP	Val.	3e.t	TTG	
250		130					1.35					140					100
						gat											480
		Pro	Thr	G I.n	GIĀ	Asp	Val	۷a J.	He	Va L		Thr	Asp	ATa	Leu		
254						150					155					160	
						gat		_								-	528
257	Thr	Gly	Phe	Thr	Gly	Asp	Phe	Asp	ser	Va L	Val	Asp	Cys	Asn		Cys	
258					1.65					170					175		
260	atc	acc	cag	gga	tct	gga	ctg	gta	agc	ttc	gcg	age	cat	gtg	ccg	t.ac	576
261	11e	Thr	Gln	Gly	Ser	Gly	Leu	Val	Ser	Phe	Ala	Ser	His	Val	Pro	Tyr	
262				180					185					1.90			
264	atc	qaq	caq	ggt	atg	caa	ctg	agc	gaa	caa	ttt	aag	cag	aag	agc	ctg	624
265	Ile	Glu	Gln	Gly	Met	Gln	Leu	Ser	Glu	Gln	Phe	Lys	Gln	Lys	Ser	Leu	
266			195	•				200				•	205	•			
268	aat	cta	cta	caq	acc	geg	acc	aaa	cag	aca	qaq	aca	qcc	qcc	cca	ata	672
						Ala											
270	0.21	210					215	,				220					
	att		acc	cca	aaa	agc		cat	cca	ааа	aat		acc	taa	аса	caa	720
						Ser											, 20
274		GLY	1111	11.0	шүз	230	HEG	Arg	rio	GIG	235	nrg	niu	1.1	er.e.u	240	
		aat	200	a+c	ato	ctq	200	aat	oat	000		at t	ata	ccc	ast		768
						_	-		-	-		-	-	-	_	_	/08
	5.T.O	атй	LHIT	тте		Leu	SGI	ary	AT G		H.I.d	v d T	AGT	PLO		wr.à	
278		_4			245					250					255		03.0
						gaa											81.6
281	Glu	Va 1.	Leu	Ty.r	G.Ln	GLu	Phe	Leu	Glu	Ala	ser	Arg	ALa	A.La	reu	шe	

PATENT APPLICATION: US/09/509,449 TIME: 12:05:50 Input Set : A:\ST25.txt Output Set: N:\CRF3\02222001\I509449.raw 282 260 265 864 284 gan gag ggg caa egg ata gee gag atg etg ang tee ang ate eng gge 285 Glu Glu Gly Gln Arg Ile Ala Glu Met Leu Lys Ser Lys Ile Gln Gly 275 280 285 286 912 288 ttu ctg cag caa gcc tcc aag cag gcc caa gac ata aaa atc gac ggt 289 Leu Leu Gln Gln Ala Ser Lys Gln Ala Gln Asp lle Lys fle Asp Gly 295 292 acc ctg att att ccg aaa gat cgt cgc agc acc ggt aaa agc tgg ggt 960 293 Thr Leu Ile Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly 294 305 310 315 296 aaa ccg ggc tte etc ate gat age ttg cat ate aac cag ega gee gte 1008 297 Lys Pro Cly Phe Leu Ile Asp Ser Leu His Lle Asn Gln Arg Ala Val 325 330 300 gtt gca ccg gac aag gag gtc ctt tat gag gct ttt gat gag atg gag 1056 301 Val Ala Pro Asp Lys Glu Val Leu Tyr Glu Ala Phe Asp Glu Met Glu 345 340 304 ctc gcc atg ggc acc aac ccg aaa ccg gag cgt aaa agc aag cgt aac 305 Leu Ala Met Gly Thr Asn Pro Lys Pro Glu Arg Lys Ser Lys Arg Asn 306 355 360 365 308 acc aac cyt aaa cog caq gat att aaa ttc ccq gyt agt gyt cag gtg 1152 309 Thr Asn Arg Lys Pro Gln Asp The Lys Phe Pro Gly Ser Gly Gln Val 380 312 gtg ggt ggt gtg tac ctg gtg ccg cgt cgt ggt ccg taaggatcc 1197 313 Val Gly Gly Val Tyr Leu Val Pro Arg Gly Pro 340 Leu Ala Asp Gly Gly Cys Ala Gly Gly Ala Tyr Asp Val Ile Gly Ser 341 65 70 75 80 344 Gly Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Val Pro Phe Tyr Gly 345 $$ 85 $$ 90 $$ 95 348 Arg Ala Ile Pro Ile Glu Ala Ile Lys Gly Gly Arg His Leu Val Phe 100 105 352 Cys His Ser Lys Glu Lys Cys Asp Glu Leu Ala Ser Ala Leu Ser Gly 120 353 1.15 356 Leu Gly Leu Asn Ala Val Ala Phe Tyr Arg Gly Leu Asp Val Ser-Ile 140 357 130 135

RAW SEQUENCE LISTING

360 Ile Pro Thr Gln Gly Asp Val Val Ile Val Ser Thr Asp Ala Leu Met

DATE: 02/22/2001.



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/509,449

DATE: 02/22/2001 TIME: 12:05:51

Input Set : A:\ST25.txt
Output Set: N:\CRF3\02222001\I509449.raw